

## Patent Abstracts of Japan

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TITLE : LAMINATED METHANOL REFORMER

ABSTRACT : PURPOSE: To provide a laminated methanol reformer excellent in safety, being lightweight, compact and having good load property.

CONSTITUTION: Plural reforming cell units 7 each consisting of a methanol reforming catalyst in a reforming cell gas separating plate 6 and plural heating cell units 4 each having an oxidizing catalyst put between a pair of heating cell gas separating plates 2, 3 are laminated to form a laminated body 10. A reforming gaseous starting material is fed to the reforming unit 7 through a reforming gaseous starting material feed hole 11 and a reformed gas discharge hole 12 installed in the laminated body 10, and the reformed gas is taken out from the reforming unit 7 by steam reforming reaction. In this case, fuel gas and oxidizing gas are fed to the heating cell unit 4 through a fuel gas feed hole 15, an oxidizing gas feed hole 13, etc., to generate heat in the reforming cell unit 7 by oxidative reaction of fuel gas and the reforming cell unit 7 is heated by this heat.

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